Index to Volume 16

Authors and Titles

Agostino, A., Furbank, R. T., and Hatch, M. D.
Maximising photosynthetic activity and cell integrity in isolated bundle sheath cell strands from C_4 species 279
Agostino, A. *See also* Boag, S.
Allaway, W. G. *See* Allen, W. K.; Ashford, A. E.; Logan, V. S.
Allen, W. K., Allaway, W. G., Cox, G. C., and Valder, P. G.
Ultrastructure of mycorrhizas of *Dracophyllum secundum* R. Br. (Ericales: Epacridaceae) 147
Amarasinghe, V., and Watson, L.
Variation in salt secretory activity of microhairs in grasses 219
Ashford, A. E., Allaway, W. G., Peterson, C. A., and Cairney, J. W. G.
Nutrient transfer and the fungus-root interface 85
Ashford, A. E. *See also* Cairney, J. W. G.; Orlovich, D. A.
Atkins, C. A. *See* Dakora, F. D.
Azócar, A. *See* Rada, F.

Bhekasut, P. *See* Setter, T. L.
Bieleski, R. L. *See* McPharlin, I. R.
Boag, S., Agostino, A., Furbank, R. T., and Hatch, M. D.
Effects of external Mg^{2+} and pH on the photosynthetic activities and stromal pH of intact chloroplasts isolated from C_4 plants 379
Brownell, P. F. *See* Grof, C. P. L.; Johnston, M.

Cairney, J. W. G., and Ashford, A. E.
Reducing activity at the root surface in *Eucalyptus pilularis—Pisolithus tinctorius* ectomycorrhizas 99
Cairney, J. W. G. *See also* Ashford, A. E.
Clarke, P. J. *See* Logan, V. S.
Conover, D. G., and Sovonick-Dunford, S. A.
Influence of water deficits on the water relations and growth of *Echinochloa turneriana, Echinochloa, crus-galli* and *Pennisetum americanum* 291
Cox, G. C. *See* Allen, W. K.; Orlovich, D. A.

Dakora, F. D., and Atkins, C. A.
Diffusion of oxygen in relation to structure and function in legume root nodules 131
Day, D. A., Price, G. D., and Udvardi, M. K.
Membrane interface of the *Bradyrhizobium japonicum—Glycine max* symbiosis: peribacteroid units from soybean nodules 69
Djordjevic, M. A. *See* Richardson, A. E.
Dracup, M. *See* Tyerman, S. D.

Evans, J. R.
Partitioning of nitrogen between and within leaves grown under different irradiances 533

Ferrar, P. J., Slatyer, R. O., and Vranjic, J. A.
Photosynthetic temperature acclimation in *Eucalyptus* species from diverse habitats, and a comparison with *Nerium oleander* 199
Furbank, R. T. *See* Agostino, A.; Boag, S.

Gibbs, J. *See* Tyerman, S. D.
Goldstein, G. *See* Rada, F.
Goodwin, P. B. *See* Shepherd, V. A.
Greenway, H. *See* Morrell, S.; Setter, T. L.; Tyerman, S. D.
Greer, D. H., and Hardacre, A. K.
Photoinhibition of photosynthesis and its recovery in two maize hybrids varying in low temperature tolerance 189
Greer, D. H. *See also* Hardacre, A. K.
Grof, C. P. L., Richards, D. B. C., Johnston, M., and Brownell, P. F.
Characterisation of leaf fluorescence of sodium-deficient C_4 plants: kinetics of emissions from whole leaves and fluorescence properties of isolated thylakoids 459
Grof, C. P. L. *See also* Johnston, M.

Hardacre, A. K., and Greer, D. H.
Differences in growth in response to temperature of maize hybrids varying in low temperature tolerance 181
Hardacre, A. K. *See also* Greer, D. H.
Hardham, A. R.
Lectin and antibody labelling of surface components of spores of *Phytophthora cinnamomi* 19
Hatch, M. D. *See* Agostino, A.; Boag, S.

Henson, I. E., Jensen, C. R., and Turner, N. C.
Leaf gas exchange and water relations of lupins and wheat. I. Shoot responses to soil water deficits 401
Henson, I. E., Jensen, C. R., and Turner, N. C.
Leaf gas exchange and water relations of lupins and wheat. III. Abscisic acid and drought-induced stomatal closure 429
Henson, I. E. *See also* Jensen, C. R.
Hope, A. B., Liggins, J., and Matthews, D. B.
The kinetics of reactions in and near the cytochrome *b/f* complex of chloroplasts. II. Cytochrome *b*-563 reduction 353
Howie, H. *See* Lloyd, J.
Huang, L.-K., Osmond, C. B., and Terashima, I.
Chilling injury in mature leaves of rice. II. Varietal differences in the response to interactions between low temperature and light measured by chlorophyll fluorescence at 77K and the quantum yield of photosynthesis 339
Huang, L.-K., Wong, S. C., Terashima, I., Zhang, X., Lin, D.-X., and Osmond, C. B.
Chilling injury in mature leaves of rice. I. Varietal differences in the effects of chilling on canopy photosynthesis under simulated 'dry cold dew wind' conditions experienced in South-East China 321

Jensen, C. R., Henson, I. E., and Turner, N. C.
Leaf gas exchange and water relations of lupins and wheat. II. Root and shoot water relations of lupin during drought-induced stomatal closure 415
Jensen, C. R. *See also* Henson, I. E.
John, P. C. L. *See* Korner, C.
Johnson, I. R., Parsons, A. J., and Ludlow, M. M.
Modelling photosynthesis in monocultures and mixtures 501
Johnston, M., Grof, C. P. L., and Brownell, P. F.
Chlorophyll *a/b* ratios and photosystem activity of mesophyll and bundle sheath fractions from sodium-deficient C_4 plants 449
Johnston, M. *See also* Grof C. P. L.
Jones, D. A. *See* Zhan, X.-C.

Kerr, A. *See* Zhan, X.-C.
Kohl, Daniel, H. *See* Shearer, Georgia
Korner, C., Palaez Menendez-Riedl, S., and John, P. C. L.
Why are Bonsai plants small? A consideration of cell size 443
Kupkanchankul, T. *See* Setter, T. L.

Liggins, J. *See* Hope, A. B.
Lin, D.-X. *See* Huang, L.-K.
Lloyd, J., and Howie, H.
Salinity, stomatal responses and whole-tree hydraulic conductivity of orchard 'Washington Navel' orange, *Citrus sinensis* (L.) Osbeck 169
Logan, V. S., Clarke, P. J., and Allaway, W. G.
Mycorrhizas and root attributes of plants of coastal sand-dunes of New South Wales 141
Ludlow, M. M. *See* Johnson, I. R.

Manners, J. M.
The host-haustorium interface in powdery mildews 45
Matthews, D. B. *See* Hope, A. B.
McFarland, M. J. *See* Steinberg, S. L.
McGee, P. A., Smith, S. E., and Smith, F. A.
Introduction: Research directions on the structure and function of the plant-microbe interface 1
McPharlin, I. R., and Bieleski, R. L.
P_i efflux and influx by P-adequate and P-deficient *Spirodela* and *Lemna* 391
Meinzer, F. C. *See* Saliendra, N. Z.
Miller, J. C., Jr. *See* Steinberg, S. L.
Montilla, M. *See* Rada, F.
Mott, K. A. *See* Woodrow, I. E.
Morrell, S., and Greenway, H.
Evidence does not support ethylene as a cue for synthesis of alcohol dehydrogenase and pyruvate decarboxylase during exposure to hypoxia 469

Oats, P. *See* Tyerman, S. D.
Orlovich, D. A., Ashford, A. E., and Cox, G. C.
A reassessment of polyphosphate granule composition in the ectomycorrhizal fungus *Pisolithus tinctorius* 107
Orozco, A. *See* Rada, F.
Osmond, C. B. *See* Huang, L.-K.

Palaez Menendez-Riedl, S. *See* Korner, C.
Parsons, A. J. *See* Johnson, I. R.
Patrick, J. W.
Solute efflux from the host at plant-microorganism interfaces 53
Peterson, C. A. *See* Ashford, A. E.
Price, G. D. *See* Day, D. A.

Rada, F., Goldstein, G., Orozco, A., Montilla, M., Zabala, O., and Azócar, A.
Osmotic and turgor relations of three mangrove ecosystem species 477

Reed, M. L.
Ericoid mycorrhizas of Styphelieae: intensity of infection and nutrition of the symbionts 155
Richards, D. B. C. *See* Grof, C. P. L.
Richardson, A. E., Djordjevic, M. A., Rolfe, B. G., and Simpson, R. J.
Expression of nodulation genes in *Rhizobium* and acid-sensitivity of nodule formation 117
Rolfe, B. G. *See* Richardson, A. E.

Saliendra, N. Z., and Meinzer, F. C.
Relationship between root/soil hydraulic properties and stomatal behaviour in sugarcane 241
Setter, T. L., Greenway, H., and Kupkanchankul, T.
Submergence of rice. II. Adverse effects of low CO_2 concentrations 265
Setter, T. L., Waters, I., Wallace, I., Bhekasut, P., and Greenway, H.
Submergence of rice. I. Growth and photosynthetic response to CO_2 enrichment of floodwater 251
Shearer, Georgia, and Kohl, Daniel H.
Natural ^{15}N abundance of NH_4^+, amide N, and total N in various fractions of nodules of peas, soybeans and lupins 305
Shepherd, V. A., and Goodwin, P. B.
The porosity of permeabilised *Chara* cells 231
Simpson, R. J. *See* Richardson, A. E.
Slatyer, R. O. *See* Ferrar, P. J.
Smith, F. A., and Smith, S. E.
Membrane transport at the biotrophic interface: an overview 33
Smith, F. A. *See also* McGee, P. A.
Smith, S. E. *See* McGee, P. A.
Sovonick-Dunford, S. A. *See* Conover, D. G.
Steinberg, S. L., McFarland, M. J., and Miller, J. C., Jnr.
Effect of water stress on stomatal conductance and leaf water relations of leaves along current-year branches of peach 549
Stone, B. A.
Cell walls in plant-microorganism associations 5

Terashima, I. *See* Huang, L.-K.
Turner, N. C. *See* Henson, I. E.; Jensen, C. R.
Tyerman, S. D., Oats, P., Gibbs, J., Dracup, M., and Greenway, H.
Turgor-volume regulation and cellular water relations of *Nicotiana tabacum* roots grown in high salinities 517

Udvardi, M. K. *See* Day, D. A.

Valder, P. G. *See* Allen, W. K.
Vranjic, J. A. *See* Ferrar, P. J.

Walker, R. R.
Growth, photosynthesis and distribution of chloride, sodium and potassium ions in salt-affected quandong (*Santalum acuminatum*) 365
Wallace, I. *See* Setter, T. L.
Waters, I. *See* Setter, T. L.
Watson, L. *See* Amarasinghe, V.
Weiland, R. T.
Evaluation of maize inbreds for vegetative nitrate uptake and assimilation 161
Wong, S. C. *See* Huang, L.-K.
Woodrow, I. E., and Mott, K. A.
Rate limitation of non-steady-state photosynthesis by ribulose-1,5-bisphosphate carboxylase in spinach 487

Zabala, O. *See* Rada, F.
Zhan, X.-C., Jones, D. A., and Kerr, A.
In vitro plantlet formation in *Linum marginale* from cotyledons, hypocotyls, leaves, roots and protoplasts 315
Zhang, X. *See* Huang, L.-K.